

INSPECTION REPORT  
FOR  
ALLIED CHEMICAL CORP.  
/PVS CHEMICALS, INC.

ILD001833714

R05-8410-01D

SEPTEMBER 17, 1986

EPA Region 5 Records Ctr.



288530

## **SITE INSPECTION MEMO**

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**1**

## **2070 - 13 FORM**

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**2**

## **SITE MAPS**

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**3**

## **SITE PHOTOGRAPHS**

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**4**

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# ecology and environment, inc.

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International Specialists in the Environment

## M E M O R A N D U M

DATE: September 17, 1986  
TO: File  
FROM: Ruth Ann Jacquette *(RAG)*  
SUBJECT: Illinois/R05-8410-01D/ILD0309  
Chicago/Allied Chemical Corp.-PVS Chemicals, Inc.  
ILD008133714

Allied Chemical Corporation, Calumet Works is a RCRA regulated facility which operated from 1920 until 1981. The facility manufactured sulfuric acid, ammonium thiosulfate, aluminum chloride solution, and reduced chromium sulfate. Until 1978 chemically pure acids were also manufactured. This site was originally identified by the Illinois EPA in the form of a Preliminary Assessment submitted to the U.S. EPA.

The entire site consists of 90 acres. The majority of the site is vacant, where three old landfills are located. The remaining property is the active plant area. According to representatives from Allied Chemical Corp. the following materials were deposited into the landfills. In the landfill located west of Wolf Creek, small quantities of sodium silicates, sulfuric acid spent catalysts, asbestos ropes, broken carboys, and demolition debris were deposited (see Figure 2, area 8). The waste disposed into the two landfills located east of Wolf Creek consisted of scrap sulfur, residue from the production of HCL, and various demolition and manufacturing debris (see Figure 2, area 7). No records exists to document which materials or specific quantities that were disposed of in each landfill. Records also indicate drums of sulfuric acid were disposed of in a shallow trench located east of Wolf Creek. The landfills were no longer used sometime prior to 1977. In 1979 all areas were graded and six inches of sludge from the Metropolitan Sanitary District of Greater Chicago was applied only to the area east of Wolf Creek (see Figure 2, area 7).

A one time disposal of forty-one 55 gallon drums containing corrosive material from a dismantled tank occurred in February of 1981. The drums were shipped off-site to a permitted landfill.

The facility utilized a two compartment surface impoundment to neutralize corrosive waste water generated from process waste, plant maintenance and area wash downs. Waste water is first treated in a surface impoundment with sodium hydroxide to raise the pH to 8. The waste water is then pumped into the second impoundment where iron is precipitated out as iron hydroxide. After settling the supernate is discharged into the Metropolitan Sanitary District of Greater Chicago sewer system. The surface impoundments are lined with a sheet consisting of five layers of asphalt impregnated with burlap. They are monitored in order to maintain a two foot freeboard and an earthen dike surrounds the impoundments.

An NPDES permit authorizes the discharge of non-contact cooling waters uncontaminated by process wastes, into the Calumet River. An intake from the Calumet River provides the non-contact cooling waters. Acid leaks in the process equipment accounted for pH excursions which resulted in NPDES violations to outfalls to the Calumet River.

On November 11, 1980, Allied Chemical Corp. submitted a Part A permit to operate as a generator and a T/S/D facility. At this time Allied Chemical Corp. received Interim Status. On October 13, 1981, PVS Chemicals, Inc. purchased the operating portion of the site. (See Figure 2). Revisions to the Part A permit were submitted at this time.

PVS Chemicals, Inc. generates the identical wastes as Allied Chemical Corp. Although modification of operations were made. In the neutralization process, the pH of the corrosive waste water is raised prior to its discharge into the surface impoundments. The facility as it

operates now qualifies as an Elementary Neutralization Unit, and thus is a generator of hazardous waste only. In September of 1985 a closure plan was submitted by PVS Chemicals, Inc. to the Illinois EPA. The surface impoundments have not been officially closed.

Residual material generated from the manufacturing processes are shipped off-site for disposal at permitted landfills. These wastes are classified as IEPA Special Wastes, both non-hazardous and hazardous (see Attachments A and B).

In 1984 Arrow Terminal Co. purchased a portion of the Allied Chemical, Corp. property which consisted of 500 feet east of the western border (see Figure 2). The remaining 20 acres is still owned by Allied Chemical, Corp.

On May 14, 1986, FIT members performed a survey of the Allied Chemical Corp./PVS Chemicals, Inc. site, and the following observations were made. The entire site appeared to be fence with a locked gate at the entrance. The active plant area consisted of many buildings and appeared to be paved.

The population within a three mile radius of this site obtains drinking water from Lake Michigan. Intakes for this system are at a distance greater than three miles from the site. The nearest surface water is the Calument River located 500 feet west of the site. The river is not utilized as a source for drinking water but is used for recreational purposes such as fishing.

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POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE <u>IL</u>	02 SITE NUMBER <u>D001833714</u>

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common or descriptive name of site)

Allied Chemical Corp. (A.K.A. Pvs) 12260 Corondolet Avenue  
03 CITY Chicago 04 STATE IL 05 ZIP CODE 60633 06 COUNTY  
07 COUNTY CODE 031 08 CONG DIST 09

09 COORDINATES  
LATITUDE 41°30'20.0" LONGITUDE 087°33'LLD" 10 TYPE OF OWNERSHIP (Check one)  
 A. PRIVATE  B. FEDERAL  C. STATE  D. COUNTY  E. MUNICIPAL  
 F. OTHER  G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION <u>5/14/86</u> MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION <u>1920 Present</u> BEGINNING YEAR ENDING YEAR	— UNKNOWN
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04 AGENCY PERFORMING INSPECTION (Check all that apply)

A. EPA  B. EPA CONTRACTOR Ecology And Environment  C. MUNICIPAL  D. MUNICIPAL CONTRACTOR  
 E. STATE  F. STATE CONTRACTOR  G. OTHER  
(Name of firm) Int'l. (Specify) \_\_\_\_\_

05 CHIEF INSPECTOR <u>Ruth Ann JACQUETTE</u>	06 TITLE <u>Geographer</u>	07 ORGANIZATION <u>E+E(FIT)</u>	08 TELEPHONE NO <u>(312) 663-9415</u>
09 OTHER INSPECTORS <u>David Curnock</u>	10 TITLE <u>Agronomist</u>	11 ORGANIZATION <u>E+E (FIT)</u>	12 TELEPHONE NO <u>(312) 663-9415</u>
<u>Cynthia Pugh</u>	<u>Environmental Scientist</u>	<u>E+E(FIT)</u>	<u>(312) 663-9415</u>
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED <u>Dale Smyser (PVS)</u>	14 TITLE <u>Plant Manager</u>	15 ADDRESS <u>12260 Corondolet Ave Chicago, IL 60633</u>	16 TELEPHONE NO <u>(312) 1933-8800</u>
<u>Edward Shields (Henley Group)</u>	<u>Director of Environmental Ser.</u>	<u>Morristown, NJ</u>	<u>(201) 455-5630</u>
<u>Joseph Boyle (U.S. EPA)</u>	<u>Enforcement Division</u>	<u>230 S Dearborn Chicago, IL 60604</u>	<u>(312) 836-4449</u>
<u>Bill Yanovitch (Henley Group)</u>	<u>Environmental Ser.</u>	<u>Morristown, NJ</u>	<u>(201) 455-5630</u>
The above representatives were interviewed during phone conversations.			( )
			( )

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION <u>1:30 pm</u>	19 WEATHER CONDITIONS <u>55° F, Overcast</u>
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IV. INFORMATION AVAILABLE FROM

01 CONTACT <u>Cliff Gould</u>	02 OF (Agency/Organization) <u>Illinois EPA, D.L.P.C.</u>	03 TELEPHONE NO. <u>(312) 1345-9780</u>
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM <u>Ruth Ann JACQUETTE</u>	05 AGENCY <u>U.S. EPA</u>	06 ORGANIZATION <u>E+E (FIT)</u>

EPA FORM 2070-13 (7-81)

07 TELEPHONE NO.  
(312) 663-9415

08 DATE  
9/17/86  
MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 2 - WASTE INFORMATION

IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE <small>(Measures of waste quantities must be independent.)</small>	03 WASTE CHARACTERISTICS (Check all that apply)		
<input checked="" type="checkbox"/> A SOLID <input checked="" type="checkbox"/> B. POWDER, FINES <input checked="" type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ (Specify)	<input type="checkbox"/> E. SLURRY <input checked="" type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS	<input type="checkbox"/> A. TOXIC <input checked="" type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE	<input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
	TONS _____			
	CUBIC YARDS <u>3978.58</u>			
	NO. OF DRUMS <u>51</u>			

III. WASTE TYPE

See Attachment A

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown	Unknown	MSD Sludge (See below)
OLW	OILY WASTE			
SOL	SOLVENTS			The following materials were deposited in landfills onsite:
PSD	PESTICIDES			Asbestos ropes, residue from
OCC	OTHER ORGANIC CHEMICALS			the production of HCl, Scrap
IOC	INORGANIC CHEMICALS			Sulfur, sodium silicates,
ACD	ACIDS			and Sulfuric acid spent
BAS	BASES			Catalyst. Waste quantity is
MES	HEAVY METALS			UNKNOWN.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
Allied Chemical Corp. / PVS is a generator of hazardous wastes. The quantities listed above reflects the amount of permitted waste disposed of over several years, according to IEPA Special waste manifests. These wastes are disposed of offsite.					

Iron hydroxide sludge is accumulated from the neutralization of process waste and is classified as IEPA special waste. The remaining wastes are a combination of IEPA special wastes with hazardous and nonhazardous, which are generated from the facility's manufacturing processes. (See Attachments A and B). Although no analysis of the sludge deposited onsite is available, past analysis has shown high levels of heavy metals.

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Sulfur	Unknown	FDS	-	-
FDS	Spent Alkylation Acid	Unknown	FDS	-	-
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (See specific references e.g. state laws, sample analysis reports)

- Ecology and Environment, Inc. (EIT) Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION  
01 STATE  IL  
02 SITE NUMBER  D0018337114

II. HAZARDOUS CONDITIONS AND INCIDENTS

01  A. GROUNDWATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

Geology consists of Calumet deposits which overlie the Silurian Dolomite Aquifer. A potential exists as the landfills are not lined. According to the U.S. EPA, the facility shall monitor for groundwater in the future.

01  B. SURFACE WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: 9/80)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

Leaks in process equipment accounted for 11 PDES violations to cuttals in the Calumet River which is located 1 mile from the site. The Calumet River is not used as a source for drinking water.

01  C. CONTAMINATION OF AIR  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

None documented or observed.

01  D. FIRE/EXPLOSIVE CONDITIONS  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

None documented or observed.

01  E. DIRECT CONTACT  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

A potential for direct contact is unlikely, as the site is fenced.

01  F. CONTAMINATION OF SOIL  
03 AREA POTENTIALLY AFFECTED:  90 (Acres)

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

A potential exists as spills in the plant area may have occurred in the plumes area. Also MISO Sludge was used as a topsoil substitute.

01  G. DRINKING WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

Population within a 3 mile radius of the site obtains drinking water from lake Michigan. Intakes for this system are at a distance greater than 3 miles from site.

01  H. WORKER EXPOSURE/INJURY  
03 WORKERS POTENTIALLY AFFECTED: Unknown

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

A potential exists, as workers may come in contact with hazardous waste.

01  I. POPULATION EXPOSURE/INJURY  
03 POPULATION POTENTIALLY AFFECTED:  O

02  OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

POTENTIAL  ALLEGED

A potential for population exposure/injury is unlikely, as the site is fenced.

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

## PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

## I. IDENTIFICATION

01 STATE  
IL02 SITE NUMBER  
D001833714

## II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

- 01
- 
- J. DAMAGE TO FLORA
- 
- 04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

None documented or observed.

- 01
- 
- K. DAMAGE TO FAUNA
- 
- 04 NARRATIVE DESCRIPTION (Include name(s) of species)

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

None documented or observed.

- 01
- 
- L. CONTAMINATION OF FOOD CHAIN
- 
- 04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

(See j and k above)

- 01
- 
- M. UNSTABLE CONTAINMENT OF WASTES
- 
- (Rope/Penoff Standing liquids. Leaking drums.)

02  OBSERVED (DATE 9/80)  POTENTIAL  ALLEGED

- 03 POPULATION POTENTIALLY AFFECTED
- 5.058

04 NARRATIVE DESCRIPTION

Leaks in the process equipment caused violations of the NPDES permit.

- 01
- 
- N. DAMAGE TO OFFSITE PROPERTY
- 
- 04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

Violations of NPDES Permit may have resulted in Contamination of the Calumet River.

- 01
- 
- O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
- 
- 04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

Supernatant from the neutralization process is discharged into the Metropolitan Sanitary District of Greater Chicago, Sewer. A potential for contamination exists if pH is not adjusted properly.

- 01
- 
- P. ILLEGAL/UNAUTHORIZED DUMPING
- 
- 04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED

None documented or observed.

## III. DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Six inches of MSD Sludge was applied as a topsoil substitute after grading occurred to the landfill area east of Wolf Creek.

IV. TOTAL POPULATION POTENTIALLY AFFECTED: 5.058

## V. COMMENTS

None

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state DOA sample analysis reports.)

- Ecology and Environment, Inc. (FIT) Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D001833714

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES	0002640	4/11/79	Unknown	
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input checked="" type="checkbox"/> D. RCRA	IL D0018 33714	11/14/80	NA	
<input checked="" type="checkbox"/> E. RCRA INTERIM STATUS	IL D0018 33714	11/14/80	NA	Hlosure plan submitted 9/85
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	EPA II Special Waste Generator Auth.			See Attachments H + B
<input checked="" type="checkbox"/> H. LOCAL (Specify)	28	Unknown	Unknown	City of Chicago Operator permit
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT (2)	250,000	Gallons		<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES				
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND (41)	55	Gallon		
<input type="checkbox"/> D. TANK, ABOVE GROUND				
<input type="checkbox"/> E. TANK, BELOW GROUND				
<input checked="" type="checkbox"/> F. LANDFILL (3)	Unknown	Unknown		06 AREA OF SITE
<input checked="" type="checkbox"/> G. LANDFARM	Unknown	Unknown		90 acres
<input type="checkbox"/> H. OPEN DUMP				
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

41, fifty-five gallon drums of Corrosive Sludge from a dismantled tank, were temporarily stored onsite until disposal. These are Surface impoundments which were once used to neutralize process waste. Currently they are used as settling lagoons. 3 Landfills were utilized onsite and accepted a majority of waste. MSD Sludge was applied as a topsoil substitute.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)	<input checked="" type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input type="checkbox"/> C. INADEQUATE, POOR	<input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The Surface impoundments have a 2 ft footer, and are completely diked. The liners consist of a sheeting with 5 layers of asphalt impregnated burlap. The landfills are not lined, and MSD Sludge was applied as a topsoil substitute. It is unknown if two feet of cover was applied.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
02 COMMENTS		

The site is fenced.

VI. SOURCES OF INFORMATION (Check specific references e.g. state files, sample analysis reports)

- Ecology and Environment, Inc. (FIT) Files.



**POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT**  
**PART B - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA**

<b>IDENTIFICATION</b>	
01 STATE	02 SITE NUMBER
IL	D001833714

**II. DRINKING WATER SUPPLY**

01 TYPE OF DRINKING SUPPLY (Check one applicable)		02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	A. <u>3.6</u> (mi)
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	B. _____ (mi)

**III. GROUNDWATER**

## 01 GROUNDWATER USE IN VICINITY (Check one)

- A ONLY SOURCE FOR DRINKING     B DRINKING  
(Other sources available)  
COMMERCIAL, INDUSTRIAL, IRRIGATION  
(No other water sources available)
- C COMMERCIAL, INDUSTRIAL, IRRIGATION     D NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	<u>0</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL	<u>&gt; 3</u> (mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER

3-8 (ft)

Various

905 (ft)

Unknown (gpd)

 YES  NO

## 08 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

The shallow glacial drift and Silurian Dolomite aquifer is not used for drinking water or industrial uses. The aquifer of concern consists of Cambrian-Ordovician Sandstone, which is confined from the shallow aquifer. Industrial wells draw from the deeper aquifer.

10 RECHARGE AREA Regionally, the Cambrian-  
 YES COMMENTS Ordovician aquifer recharges  
 NO westward as it rises to the surface.

11 DISCHARGE AREA  
 YES COMMENTS Regionally groundwater  
 NO discharges into Lake Michigan

**IV. SURFACE WATER**

## 01 SURFACE WATER USE (Check one)

- A. RESERVOIR, RECREATION DRINKING WATER SOURCE     B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES     C. COMMERCIAL, INDUSTRIAL     D. NOT CURRENTLY USED

## 02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	FFECTED	DISTANCE TO SITE
<u>Calumet River</u>	<input type="checkbox"/>	<u>.1</u> (mi)
<u>Wolf Lake</u>	<input type="checkbox"/>	<u>.8</u> (mi)
	<input type="checkbox"/>	

**V. DEMOGRAPHIC AND PROPERTY INFORMATION**

## 01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE  
A. 5058  
NO OF PERSONSTWO (2) MILES OF SITE  
B. 40,465  
NO OF PERSONSTHREE (3) MILES OF SITE  
C. 120,182  
NO OF PERSONS

## 02 DISTANCE TO NEAREST POPULATION

.4 (mi)

## 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

10649

## 04 DISTANCE TO NEAREST OFF-SITE BUILDING

.018 (mi)

## 05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Within the immediate vicinity of the site there is a heavily industrialized area.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART B - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION  
01 STATE IL  
02 SITE NUMBER D001833714

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

A  $10^{-5} - 10^{-8}$  cm/sec    B  $10^{-4} - 10^{-6}$  cm/sec    C  $10^{-3} - 10^{-5}$  cm/sec    D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

A. IMPERMEABLE (less than  $10^{-6}$  cm/sec)    B. RELATIVELY IMPERMEABLE ( $10^{-4} - 10^{-6}$  cm/sec)    C. RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$  cm/sec)    D. VERY PERMEABLE (greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

35

(ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unKnown

(ft)

05 SOIL PH

6.1 to 7.3

06 NET PRECIPITATION

3.75

(in)

07 ONE YEAR 24 HOUR RAINFALL

2.43

(in)

08 SLOPE SITE SLOPE

0

%

DIRECTION OF SITE SLOPE

NA

TERRAIN AVERAGE SLOPE

0

%

09 FLOOD POTENTIAL

10

NA

SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. >3

(mi)

OTHER

B. .4

(mi)

12 DISTANCE TO CRITICAL HABITAT (or endangered species)

>3

(mi)

ENDANGERED SPECIES NA

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

(adjacent site)

A. 0 (mi)

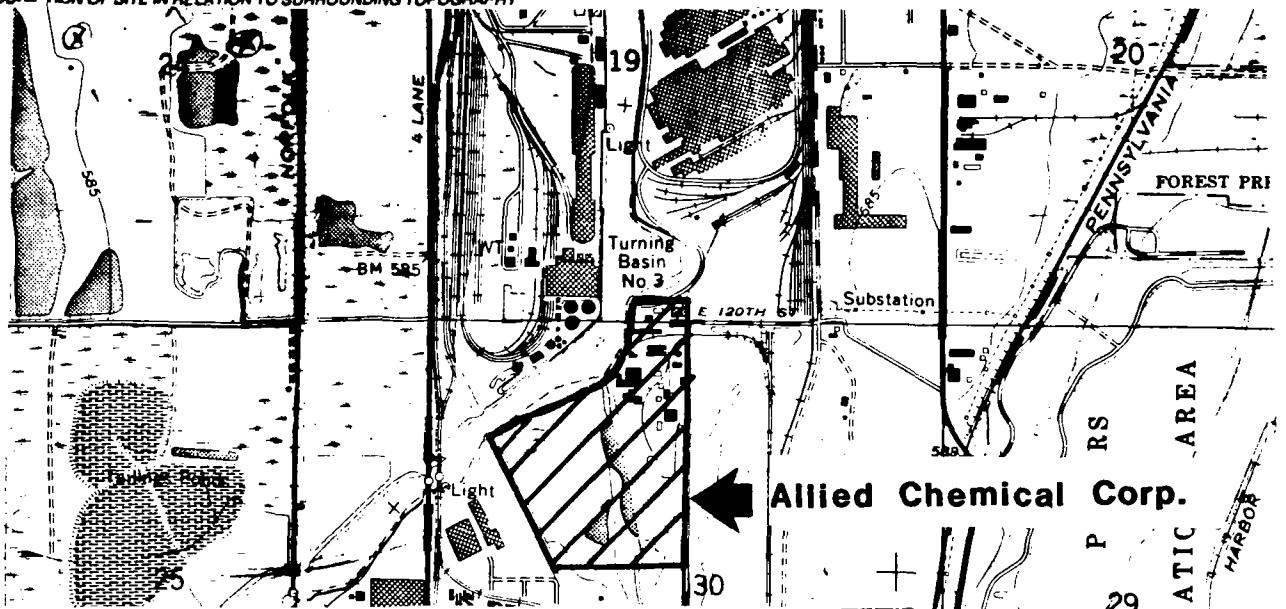
RESIDENTIAL AREAS, NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

B. .4 (mi)

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

C. >3 (mi) D. >3 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (List specific references, e.g., state files, sample analysis, reports)

- U.S.G.S. Topographic Map, 7.5' Lake Calumet Quad, 1963 PR 1975.
- A site survey conducted by etc (FIT) members, 4/30/86.
- U.S. Fish and Wildlife, Dept. of the Interior.
- Climatic atlas of the U.S., U.S. Dept. of Commerce, 1979.
- Soil Survey of DuPage and Part of Cook Counties, U.S. Dept. of Agriculture, 5/79.
- EPA FORM 2070-13 (7-81)
- 1980 Illinois Census of Population, U.S. Dept. of Commerce, Bureau of the Census.
- Summary of the Geology in the Chicago area, IL State Geological Survey, 1971.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION  
01 STATE IL 02 SITE NUMBER D001833714

II. SAMPLES TAKEN

No samples were collected.

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
surface water			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN None taken

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE	02 IN CUSTODY OF
■ GROUND □ AERIAL	Ecology and Environment, Inc. (FIT Files)
03 MAPS	04 LOCATION OF MAPS

■ YES  
□ NO

Ecology and Environment, Inc. (FIT Files)

V. OTHER FIELD DATA COLLECTED

None

VI. SOURCES OF INFORMATION (List specific references, e.g., state law, sample analysis reports)

Ecology and Environment, Inc. (FIT Files)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION  
01 STATE IL 02 SITE NUMBER D001833714

II. CURRENT OWNER(S)			PARENT COMPANY		
01 NAME <i>PVS Chemicals, Inc.</i>	02 D+B NUMBER	03 NAME <i>Pressure Vessel Services, Inc.</i>	04 D+B NUMBER	05 STATE	06 ZIP CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>12260 South Carondolet</i>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>Unknown</i>	11 SIC CODE	12 CITY	13 STATE
05 CITY <i>Chicago</i>	06 STATE IL	07 ZIP CODE 60633	12 CITY <i>Detroit</i>	13 STATE MI	14 ZIP CODE
01 NAME <i>Henley Group</i>			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>P.O. Box 1139 R</i>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE
05 CITY <i>Morristown</i>	06 STATE NJ	07 ZIP CODE 07960	12 CITY	13 STATE	14 ZIP CODE
01 NAME <i>Arrow Terminal</i>			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)					
01 NAME <i>Allied Chemical Corp.</i>			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>122605 Carondolet Ave.</i>	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE
05 CITY <i>Chicago</i>	06 STATE IL	07 ZIP CODE 60633	05 CITY	06 STATE	07 ZIP CODE
01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. REALTY OWNER(S) (List most recent first)					
01 NAME <i>None</i>			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., memo date, sample analysis, report)					
<i>Ecology and Environment, Inc. (FIT) Files.</i>					



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART B - OPERATOR INFORMATION

L IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D001833714

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME <i>Same as Owner</i>	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
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08 YEARS OF OPERATION	09 NAME OF OWNER
-----------------------	------------------

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME <i>Allied Chemical Corp.</i>	02 D+B NUMBER <i>Calumet Works</i>	10 NAME <i>Allied Chemical Corp.</i>	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>12260 South Carondelet</i>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>P.O. Box 1139 R</i>	13 SIC CODE

05 CITY <i>Chicago</i>	06 STATE <i>IL</i>	07 ZIP CODE <i>60623</i>	14 CITY <i>Morristown</i>	15 STATE <i>NJ</i>	16 ZIP CODE <i>07960</i>
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08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
-----------------------	-------------------------------------

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
---------	----------	-------------	---------	----------	-------------

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
-----------------------	-------------------------------------

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
---------	----------	-------------	---------	----------	-------------

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
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IV. SOURCES OF INFORMATION (Cite specific references, e.g., other site history analysis reports)

- Ecology and Environment, Inc (FIT) Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART B - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D001833714

II. ON-SITE GENERATOR

01 NAME <i>Allied Corp / PVS</i>	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD#, etc.) <i>12260 S. Carondolet Ave.</i>	04 SIC CODE	
05 CITY <i>Chicago</i>	06 STATE <i>IL</i>	07 ZIP CODE <i>60633</i>

III. OFF-SITE GENERATOR(S)

01 NAME <i>None</i>	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE <i>IL</i>	07 ZIP CODE	05 CITY	06 STATE <i>IL</i>	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE <i>IL</i>	07 ZIP CODE	05 CITY	06 STATE <i>IL</i>	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME <i>Various</i>	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE <i>IL</i>	07 ZIP CODE	05 CITY	06 STATE <i>IL</i>	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE <i>IL</i>	07 ZIP CODE	05 CITY	06 STATE <i>IL</i>	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

• *Ecology and Environment, Inc. (ETI) Files.*



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE

02 SITE NUMBER

IL DOD1833714

II. PAST RESPONSE ACTIVITIES

01  A. WATER SUPPLY CLOSED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  B. TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  C. PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  D. SPILLED MATERIAL REMOVED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  E. CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  F. WASTE REPACKAGED  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  G. WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  H. ON SITE BURIAL  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  I. IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  J. IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  K. IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  L. ENCAPSULATION  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  M. EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  N. CUTOFF WALLS  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  O. EMERGENCY DIKING/SURFACE WATER DIVERSION  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  P. CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01  Q. SUBSURFACE CUTOFF WALL  
04 DESCRIPTION

NA

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION  
01 STATE  02 SITE NUMBER   
IL DOD 1833714

II. PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION <i>NA</i>	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (List specific references e.g. state files, sample analysis, reports)

Ecology and Environment, Inc. (F.I.T) Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION	
O1 STATE	O2 SITE NUMBER
IL	D001833714

II. ENFORCEMENT INFORMATION

O1 PAST REGULATORY/ENFORCEMENT ACTION  YES  NO

O2 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NA

III. SOURCES OF INFORMATION (CITE SPECIFIC REFERENCES, E.G., NEWS ARTICLES, SURVEY DATA, INVESTIGATIVE REPORTS)

- Ecology and Environment, Inc. (FIT) Files.

## Immediate Removal Action Check Sheet

	High	Moderate	Low
<u>Fire and Explosion Hazard</u>			
Flammable Materials <u>NA</u>			
Explosives <u>NA</u>			
Incompatible Chemicals <u>NA</u>			
<u>Direct Contact with Acutely Toxic Chemicals</u>			
Site Security <u>Site is fenced with a Gate at the entrance.</u>			
Leaking Drums or Tanks <u>NA</u>			
Open Lagoons or pits <u>Surface impoundments onsite, but site is fenced</u>			X
Materials on Surface <u>MSD Sludge was used as a topsoil substitute.</u>			X
Proximity of Population <u>.4 mile</u>			X
Evidence of Casual Site Use <u>NA</u>			
<u>Contaminated Water Supply</u>			
Exceeds 10 Day Searl <u>NA</u>			
Gross Taste or Odors <u>NA</u>			
Alternate Water Available <u>NA</u>			
Potential Contamination <u>NA</u>			
Is the site abandoned or active? <u>Active</u>			

Comments None

Information from IEPA-DLPC Files  
Authorization Reports (2-23-85)

Attachment A

Generator: PVS Chemicals

Authorization #	Page #	Disposal facility	Waste Type	Quantity (Gallons)
781482	7,033	CID #1	Iron Hydroxide Sludge	272,500
781482	7,033	CID #2	Iron Hydroxide Sludge	100,000
782568	7,034	CID #1	Sodium Bisulfate liquid	27,700
782568	7,034	CID #2	Sodium Bisulfate liquid	32,000
791056	7,034	CID #1	Sodium Bisulfite	808
791057	7,034	CID #1	Organic Paint Additive	110
791079	7,035	CID #1	Nalco 3-21 Nalco 456	220
791814	7,035	CID #2	Chromium Sulfate Solution residue	15,500
791883	7,035	CID #2	Hg/pb filter Sludge Ammonia THI	26,940
792857	7,035	CID #2	Aluminum Chloride waste residue	12,235
806829	7,036	CID #2	Sodium Sulfate HSulfite Sulfide	178,770
801326	7,036	CID #2	Mixed Trivalent Chrome sulfate	12,928
801327	7,036	CID #2	Mixed Sulfonic acid / Borax ash / Bar	6,868
921249	7,036	Liquid Dynamics	Waste water treatment residue.	34,922

Information from IEPA-DLPC Files  
Authorization Reports (2-23-85)

Attachment A

Generator: PVS Chemicals

FORM 1, X:

ENVIRONMENTALLY RELATED PERMITS

1. IEPA Operating Permits:

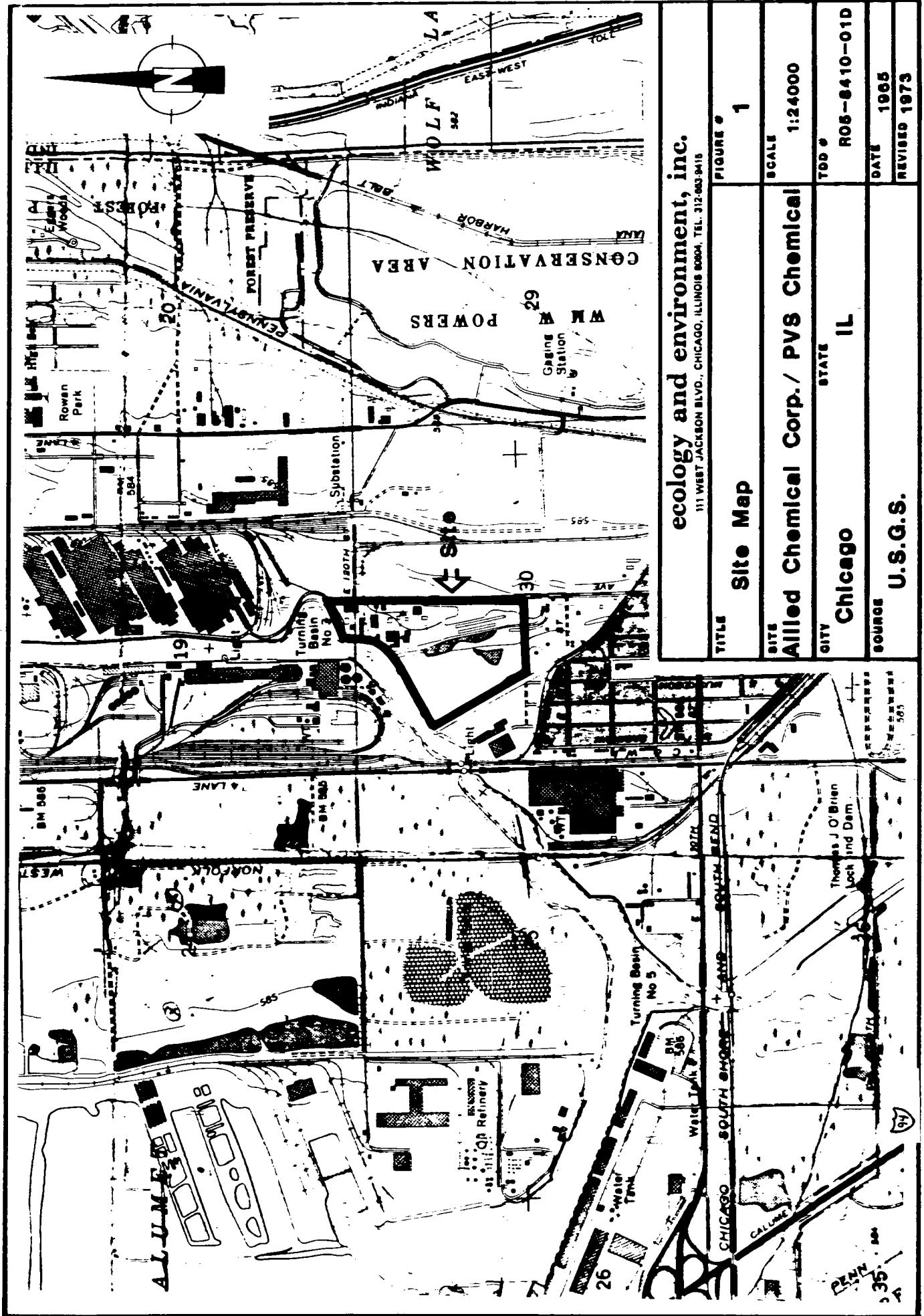
Permit Number	Process
031600ALC AC-OP-77	Aluminum Chloride Plant
031600ALC AC-OP-77	Sodium and Ammonium Salts Plant
031600ALC KRNEKIMINC	Koren Manufacturing Facility
031600ALC Acid Plant	Sulfuric Acid Plant and SO <sub>3</sub> Recovery Plant
031600ALC Vogt Boiler	Vogt Boiler

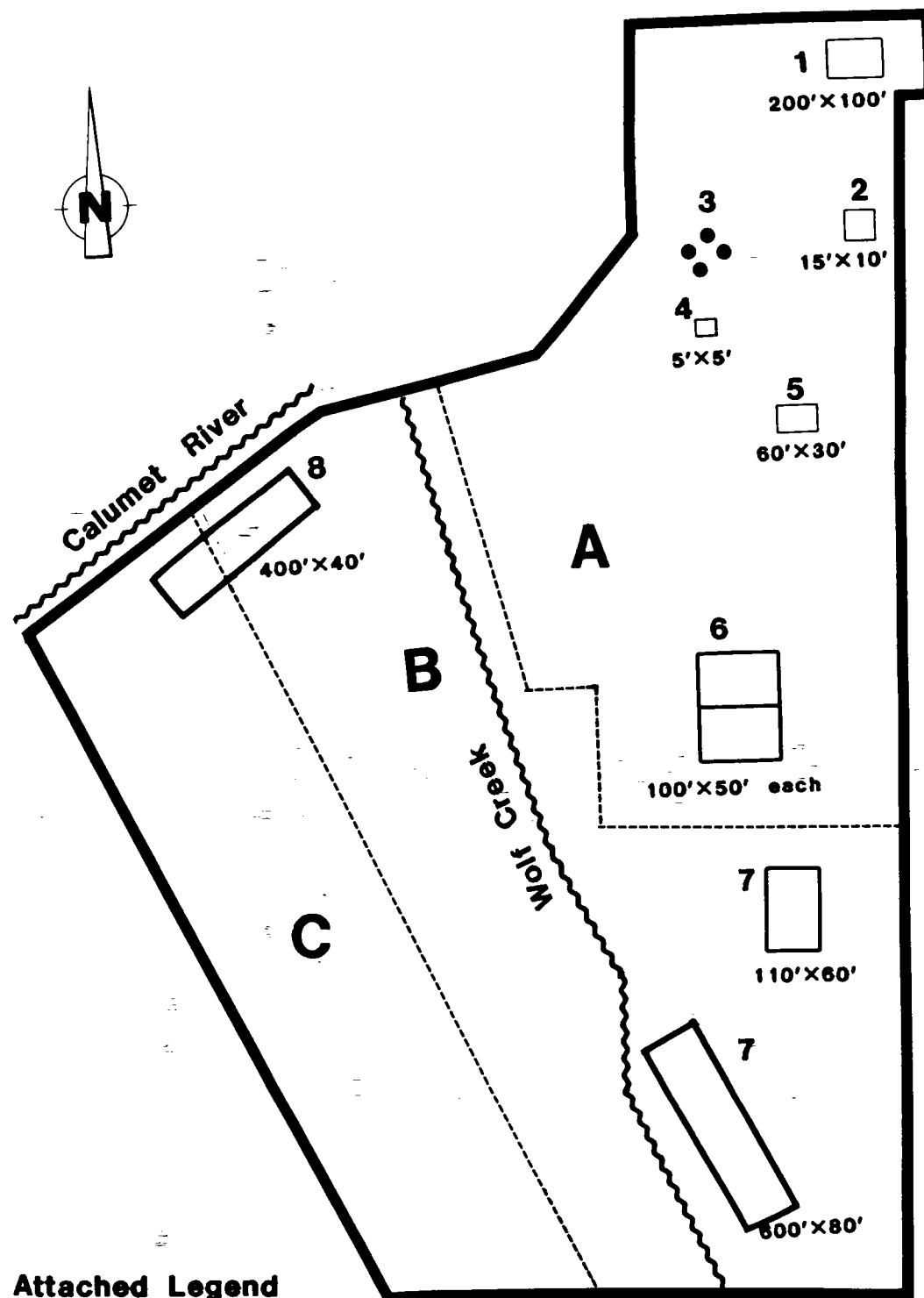
2. IEPA Special Waste Permits:

Permit Number	Special Waste
800829	sodium sulfate, bisulfite and sulfite solution
801321	mixed trivalent chrome sulfate/lime/dirt
781482	iron hydroxide
801327	mixed sulfuric acid/soda ash/dirt
791883	hypo filter sludge
791814	chromium sulfate solution residue
782568	sodium bisulfite liquor
792851	aluminum chloride residue

3. City of Chicago Operating Permit - #28







See Attached Legend

**ecology and environment, inc.**

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE <b>Site Map</b>	FIGURE # <b>2</b>
SITE <b>Allied Chemical Corp./PVS Chemical</b>	SCALE <b>NA</b>
CITY <b>Chicago</b>	STATE <b>IL</b>
SOURCE <b>R. Jacquette/File Information</b>	DATE <b>9/17/86</b>
	REVISED <b>NA</b>



# **ecology and environment, inc.**

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

## Legend

- A) PVS Chemcials, Inc.
- B) Allied Chemical Corp.
- C) Arrow Terminal Co.
- 1) Past Storage Lagoons
- 2) Drum Storage Area
- 3) Corrosive Tank Storage Area
- 4) Filter Cartrdige Neturalization
- 5) Waste Water Treatment Tanks
- 6) Two-compartment Waste Water Lagoons
- 7) Past Landfill Areas
- 8) Past Landfill Area

**4**

# FIELD PHOTOGRAPHY LOG SHEET

Page 1 of 2

DATE 5-14-86

TIME 1:30 A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER 55° Overcast

SITE Allied (PVS Chemical)

TDD# R5-8410-01

PHOTOGRAPHED BY:

Ruth Ann Jacquette

SAMPLE ID# (if applicable)

N/A

DESCRIPTION: FENCE AROUND SITE PLANT BUILDING IN BACKGROUND



DATE 5-14-86

TIME 1:31 A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER 55° Overcast

SITE Allied (PVS Chemical)

TDD# R5-8410-01

PHOTOGRAPHED BY:

Ruth Ann Jacquette

SAMPLE ID# (if applicable)

N/A

DESCRIPTION: PARKING LOT AND PVS BUILDING.



## FIELD PHOTOGRAPHY LOG SHEET

Page 2 of 2

DATE 5-14-86TIME 1:32 A.M. P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER 55° OvercastSITE Allied (PVS Chemical)TDD# R5-8410-01

PHOTOGRAPHED BY:

Ruth Ann Jacquette

SAMPLE ID# (if applicable)

N/ADESCRIPTION: PLANT ENTRANCE

DATE \_\_\_\_\_

TIME \_\_\_\_\_ A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER \_\_\_\_\_

SITE \_\_\_\_\_

TDD# \_\_\_\_\_

PHOTOGRAPHED BY:

SAMPLE ID# (if applicable)

DESCRIPTION: \_\_\_\_\_

NO  
PHOTO  
TAKEN